INDEX

Bellcore EXCHANGE Volume 6

- ☐ January/February 1990
- ☐ March/April 1990
- ☐ May/June 1990
- ☐ July/August 1990
- ☐ September/October 1990
- ☐ November/December 1990

A

acceptable service levels, Jan/Feb, pp. 15-16, 17-18.
active photonic loops, Jan/Feb, pp. 8-13.
Advanced Intelligent Network (AIN), May/June, pp. 6, 8; Sept/Oct, p. 18.
Advanced Technology Innovation program, Sept/Oct, p. 22.
Advanced television: Waiting for the picture to clear, Jules A. Bellisio, Daniel J. Collins, Jan/Feb, pp. 2-7.
Advisory Committee on Advanced Television Service, Jan/Feb, p. 3.
Agin, Sam M., *Gathering data from the field*, March/April, pp. 18-22.
Alltel, Nov/Dec, p. 23.
Ameritech, March/April, p. 24; July/Aug, p. 30.
Anderson, Bill, *Optical-fiber reliability*, Sept/Oct, pp. 8-15.
ANSI (American National Standards Institute), July/Aug, p. 17; Nov/Dec, p. 28; Committee T1, Sept/Oct, p. 32.
ASCII code (American Standard Code for Information Interchange), July/Aug, p. 32.
ASIC (application-specific integrated circuit), Mar/Apr, pp. 4-7.
asynchronous transfer mode (ATM), Sept/Oct, pp. 31-32; Nov/Dec, p. 2.
Atoms and bits, Alan G. Chynoweth, July/Aug, pp. 2-3.
AT&T Bell Laboratories, July/Aug, p. 8.
Automated Alternate Billing Services (AABS), July/Aug, p. 30.
automatic rework of pending views, May/June, pp. 34-36.

B

bandgap, July/Aug, p. 7.
Bandler, Michael L., *NORTH STAR The name of the game has changed*, Sept/Oct, pp. 2-7.
bandwidth, dynamic allocation, Sept/Oct, pp. 30-31.
batteries, March/April, pp. 14-17; July/Aug, p. 9.
Bell Atlantic, May/June, p. 36.
Bell Canada, Nov/Dec, p. 23.
Bellcore Symposium on User-Centered Design, July/Aug, pp. 26-30.
Belliso, Jules A., *Advanced television: Waiting for the picture to clear*, Jan/Feb, pp. 2-7.
BellSouth, March/April, p. 24; May/June, p. 36; July/Aug, p. 19; Nov/Dec, p. 22.
block-matching methods for motion estimation, Mar/Apr, p. 6.
Board of Directors, Bellcore, Nov/Dec, p. 19.
"book-stack" compression algorithms, July/Aug, pp. 34-35.
Bridges, J. Bradley, *Taking a fresh look at traffic engineering*, Jan/Feb, pp. 14-19; Bellcore Up Close, p. 26.
broadband ISDN, March/April, p. 17; May/June, p. 8.
broadband networks, May/June, pp. 20-25; Sept/Oct, pp. 29-33; Nov/Dec, pp. 6, 12-17.
Broadband services: opportunities and issues, Mark B. Hoffberg, May/June, pp. 20-25.
Burnett, Michael, *Profile: A look at the lab behind Bellcore's new fuel cell*, March/April, pp. 14-17.
busy hour, busy season, Jan/Feb, p. 17.
bypass, May/June, p. 28.

C

call blocking, Sept/Oct, pp. 14-19.
call routing, Sept/Oct, pp. 14-19.
call-processing capacity, Jan/Feb, pp. 16, 18-19.
call-type differentials, Jan/Feb, pp. 16, 18-19.
capacity estimation for switching systems, Jan/Feb, pp. 14-15.
Captured in crystal, Sarry F. Habiby, Abdellatif Marrakchi, Eung-Gi Paek, Kasra Rastani, Nov/Dec, pp. 30-35.
Carnegie-Mellon University, Sept/Oct, pp. 20-23.
Castaldo, Peter J., *Helping clients plan for SONET*, July/Aug, pp. 16-19.
CCITT (International Telegraph and Telephone Consultative Committee), May/June, p. 8; Sept/Oct, p. 32. Specialists Group on Coding for Visual Telephony, Mar/Apr, pp. 2-7.
Centel, Nov/Dec, p. 23.
Central Services Organization, Nov/Dec, p. 19.
The challenges of new materials and manufacturing processes, Ted Shankoff, July/Aug, pp. 10-15.
Chaudhary, Ved P., *Dynamic routing with DRS*, Sept/Oct, pp. 14-19.
chlorofluorocarbons (CFCs), July/Aug, p. 12.
chrominance components of video coding, March/April, p. 4.
Chynoweth, Alan G., *Atoms and bits*, July/Aug, pp. 2-3.
CIF (common intermediate format), March/April, pp. 4-5.
Cincinnati Bell Inc. (CBI), Nov/Dec, pp. 22-23.
client-account management, Nov/Dec, p. 21.
client-specific projects, Nov/Dec, p. 22.
coefficient of variation, Jan/Feb, p. 18.
Collins, Daniel J., *Advanced television: Waiting for the picture to clear*, Jan/Feb, pp. 2-7.
Committee T1, ANSI, Sept/Oct, p. 32.
competition, Sept/Oct, pp. 2-7.
compression algorithms for data, July/Aug, pp. 31-35.
computer-human interface, March/April, pp. 8-13.
contract access, May/June, pp. 29, 36.
controlled-atmosphere soldering, July/Aug, p. 15.
corporate data layer, May/June, pp. 29, 30, 31.
COSMOS (Computer System for Mainframe Operations), May/June, pp. 27, 28, 29-30, 31, 33-36.
cost of poor quality, Nov/Dec, pp. 25-26, 29.
crystals, photorefractive, Nov/Dec, pp. 30-35.
customer satisfaction, Nov/Dec, pp. 18-23.
customer-supplier quality process (CSQP), Nov/Dec, p. 29.

D

Data analysis and decision making, Jon R. Kettenring, Thomas R. Spacek, May/June, pp. 14-19.

data communications, March/April, pp. 28-33.
Data compression: The art of packing, Victor K. Wei, July/Aug, pp. 31-35.
delivery segment of a network, May/June, pp. 5-6, 8, 29.
design of services, July/Aug, pp. 20-25.
"Designing Our Future," Nov/Dec, p. 22.
Detecting underground gasoline spills, Glen G. Neuburger, Paul C. Warren, Jan/Feb, pp. 20-25.
diffraction gratings, Nov/Dec, p. 31.
discrete cosine transform (DCT), Mar/Apr, pp. 5-7.
diversification of regional companies, Nov/Dec, pp. 20-21.
Dobrowski, George H., *New directions in switching*, Sept/Oct, pp. 29-33.
doping, July/Aug, p. 7.
Dorros, Irwin, July/Aug, p. 22; Review, p. 36; *NORTH STAR Calling for cooperation*, Nov/Dec, pp. 4-10.
double-star fiber loop, Jan/Feb, p. 10.
Downey, Paula L., *Software trials in the Dutch network*, May/June, pp. 9-13.
DPCM (differential pulse-code modulation) loop, March/April, pp. 5-7.
DR5 system, Sept/Oct, pp. 14-19.
Dutch PTT Telecom, May/June, pp. 9-13.
Dyer, Christopher K., Profile, March/April, pp. 14-17; Patents, Jan/Feb, p. 37; Sept/Oct, p. 36; Review, Jan/Feb, pp. 33-34.
Dynamic routing with DR5, Ved P. Chaudhary, K.R. Krishnan, Sept/Oct, pp. 14-19.

E

electronic mail, Review, Mar/Apr, pp. 34-35.
Elmquist, Duane, July/Aug, p. 22.
Elsinger, Deborah A., *User-centered service design*, July/Aug, pp. 20-25.
emergency-backup power supplies, March/April, pp. 14-17; July/Aug, p. 9.
end-to-end network view, May/June, p. 8.
engineering, switch traffic, Jan/Feb, pp. 14-19.
entity-relationship data model, May/June, p. 31.
Environmental Protection Agency (EPA), Jan/Feb, p. 20; July/Aug, p. 12.
erbium, July/Aug, p. 9.
Estes, Glenn H. Jr., *Setting the benchmark*, Sept/Oct, p. 32.
exchange access, Sept/Oct, pp. 2-7.
exchange termination, Sept/Oct, pp. 31, 32.

F

factorial analysis, Jan/Feb, p. 19.
Federal Communications Commission (FCC), Jan/Feb, pp. 3-7; Sept/Oct, p. 4.
Felts, Wayne, *Service Negotiation Support System: Turning a handful into a handshake*, Sept/Oct, pp. 24-28.
fiber amplifiers, July/Aug, p. 9.
Fiber-loop architectures for the 1990s, Howard L. Lemberg, Stuart S. Wagner, Jan/Feb, pp. 8-13.
fiber optics, July/Aug, pp. 2-3, 4-9; Sept/Oct, pp. 8-13; Nov/Dec, pp. 12-17.
fiber-optic television network, Review, Jan/Feb, p. 33.
Fiber-Optic Test Procedures, Sept/Oct, p. 13.
Fletcher, Gordon M., *Helping clients plan for SONET*, July/Aug, pp. 16-19.
flow-through processing, May/June, pp. 28, 33-34.
flux, July/Aug, pp. 14, 15.
Frame Operations Management System (FOMS), May/June, p. 26.
Frontiers in materials, Vassilis G. Keramidas, Jack H. Wernick, July/Aug, pp. 4-9.
fuel cell, March/April, pp. 14-17; Review, Jan/Feb, pp. 33-34.

G

Gathering data from the field, Sam M. Agin, Edward Lam, Sing H. Lin, March/April, pp. 18-22.
generic requirements, July/Aug, pp. 10-15; Sept/Oct, pp. 8-13; Nov/Dec, p. 27.
glass, July/Aug, pp. 4-9; Sept/Oct, pp. 8-13.
greenhouse gases, July/Aug, p. 12.
GTE, Nov/Dec, p. 23.

H

Habiby, Sarry F., *Captured in crystal*, Nov/Dec, pp. 30-35.
Handler, Gary J., *NORTH STAR Information networking*, May/June, pp. 2-8; interview, July/Aug, pp. 22-23.
hardware-reliability laboratory, July/Aug, pp. 10-15; contacts, p. 14.
Helping clients plan for SONET, Peter J. Castaldo, Gordon M. Fletcher, July/Aug, pp. 16-19.
high-definition television, Jan/Feb, p. 4.
Hoffberg, Mark B., *Broadband services: opportunities and issues*, May/June, pp. 20-25.
holographic memory, Nov/Dec, pp. 12-17.
Hong Kong, Nov/Dec, pp. 12-17.
Huffman coding, July/Aug, pp. 32, 34.
human factors, July/Aug, pp. 20-25.
Human Factors Coordinating Committee, July/Aug, pp. 22, 30.
human-computer interface, March/April, pp. 8-13.
hydrochlorofluorocarbons, July/Aug, p. 15.

I

INA (information networking architecture), May/June, pp. 5-8, 29; Sept/Oct, p. 33.
information industry, Nov/Dec, pp. 4-10.
information networking, May/June, pp. 2-8; July/Aug, p. 23; Sept/Oct, pp. 20-23, 29-33; Nov/Dec, pp. 4-10.
Information Networking Institute, Sept/Oct, pp. 20-23.
Institute for Interconnecting and Packaging Electronic Circuits, July/Aug, p. 15.
Institute of Electrical and Electronics Engineers (IEEE), March/April, p. 31.
Integrated Operations Transition Plan, Sept/Oct, p. 28.
Intellectual Property Committee, Nov/Dec, p. 23.
intelligent network, May/June, pp. 6, 8; Sept/Oct, pp. 2-7.
interconnections, optical, Nov/Dec, pp. 30-35.
International Telegraph and Telephone Consultative Committee (CCITT), March/April, pp. 2-7; May/June, p. 8; July/Aug, p. 18; Sept/Oct, p. 32.
ISDN (integrated services digital network), May/June, pp. 8, 25; May/June, pp. 33, 34-35, 36; Sept/Oct, pp. 2-7, 27, 28, 29, 33; Review, March/April, p. 34.
ISDN services, March/April, pp. 2-7.
iterative design, July/Aug, pp. 22-23, 24, 27.

J

Japan, Nov/Dec, p. 15.
Jonnada, Rama K., *Service Negotiation Support System: Turning a handful into a handshake*, Sept/Oct, pp. 24-28.
Josephson junction, July/Aug, p. 9.

K

Kao, Charles K., *NORTH STAR Hong Kong: A window on the future*, Nov/Dec, pp. 12-17.
Katz, Murray J., *Service Negotiation Support System: Turning a handful into a handshake*, Sept/Oct, pp. 24-28.
Katz, Paul, *Making the most of a telephone company's purchasing power*, March/April, pp. 23-27.
Kellam-Scott, Barbara, *The vision for SWITCH*, May/June, pp. 26-31; July/Aug, pp. 22-23; *Profile: Bellcore Symposium on User-Centered Design*, July/Aug, pp. 26-30.
Keltgen, Robert W., *New directions in switching*, Sept/Oct, pp. 29-33.
Keramidas, Vassilis G., *Frontiers in materials*, July/Aug, pp. 4-9.
Kettenring, Jon R., *Data analysis and decision making*, May/June, pp. 14-19.
Klapproth, Fred F., *Matching high-speed data and public switched networks*, March/April, pp. 28-33.
Klessig, Robert W., *Matching high-speed data and public switched networks*, March/April, pp. 28-33.
Krishnan, K.R., *Dynamic routing with DR5*, Sept/Oct, pp. 14-19.

L

Lam, Edward, *Gathering data from the field*, March/April, pp. 18-22.
lasers, July/Aug, pp. 4-9; Review, Sept/Oct, p. 34; Nov/Dec, p. 32.
Lemberg, Howard L., *Fiber-loop architectures for the 1990s*, Jan/Feb, pp. 8-13.
LFACS (Loop Facilities Assigment and Control System), May/June, p. 34; Sept/Oct, p. 28.
licensing, Nov/Dec, pp. 22-23.
Lin, Sing H., *Gathering data from the field*, March/April, pp. 18-22.
line-interface units, Jan/Feb, p. 17.

INDEX

Liou, Ming-Lei, *Visual telephony: Closer than you think*, March/April, pp. 2-7.
List, Judith A., *User-centered service design*, July/Aug, pp. 20-25.
lithium batteries, July/Aug, p. 9.
load-service curve, Jan/Feb, pp. 15-16, 17-18.
local-area network (LAN), March/April, pp. 29, 30, 31; May/June, p. 22.
A look back, a look ahead, Rocco J. Marano, Nov/Dec, pp. 2-3.
luminance component of video coding, March/April, p. 4.

M

Making Contact (Bellcore Symposium on User-Centered Design), July/Aug, pp. 26-30.
Making the most of a telephone company's purchasing power, Paul Katz, Amir Sadrian, Patrick Tendick, Vern Williams, March/April, pp. 23-27.
manufacturing processes, July/Aug, pp. 10-15.
manufacturing-program analysis, Nov/Dec, p. 27.
Marano, Rocco J., *A look back, a look ahead*, Nov/Dec, pp. 2-3; p. 19.
Market Research and Services (MR&S) Council, Nov/Dec, pp. 20-23.
Marrakchi, Abdellatif, *Captured in crystal*, Nov/Dec, pp. 30-35.
Matching high-speed data and public switched networks, Fred F. Klapproth, Robert W. Klessig, Ram B. Misra, March/April, pp. 28-33.
materials, July/Aug, pp. 2-15.
memory capacity, Jan/Feb, p. 16.
METROCORE™ network, March/April, pp. 30, 31.
metropolitan-area network (MAN), March/April, p. 31.
Misra, Ram B., *Matching high-speed data and public switched networks*, March/April, pp. 28-33.
Modification of Final Judgment (MFJ), Nov/Dec, pp. 7, 19.
Montreal Protocol, July/Aug, pp. 12, 14.
Muller, Michael J., *A ToolTray for computer users*, March/April, pp. 8-13.
multilocation telecommunications, Sept/Oct, pp. 30-31.
multimedia telecommunications, Sept/Oct, pp. 30-31; Nov/Dec, pp. 12-17.
multiplexing, Jan/Feb, pp. 8-13.

N

NASA (National Aeronautics and Space Administration), March/April, p. 16.
National Telecommunications and Information Administration, Review, March/April, p. 35.
Netherlands, May/June, pp. 9-13; Nov/Dec, p. 23.
netted field verification testing (NFVT), May/June, p. 36.
Network Service and Technology Process, July/Aug, pp. 22, 24.
Network Services Data Base, Sept/Oct, p. 28.
Neuburger, Glen G., *Detecting underground gasoline spills*, Jan/Feb, pp. 20-25; Bellcore Up Close, p. 27.
neural networks, Nov/Dec, pp. 30-35; Review, Sept/Oct, p. 34.
New designs for tariffs, David S. Sibley, Padmanabhan Srinagesh, Jan/Feb, pp. 28-32.
New directions in switching, George H. Dobrowski, Robert W. Keltgen, Alan R. Tedesco, Sept/Oct, pp. 29-33.
New Jersey Bell Telephone Co., Jan/Feb, p. 25.
new materials, July/Aug, pp. 2-15.
Nippon Electric Company (NEC), July/Aug, p. 2.
nonaffiliate licensing, Nov/Dec, pp. 22-23.
nonowner clients, Nov/Dec, pp. 22-23.
Norman, Donald A., July/Aug, p. 28.
NORTH STAR Information networking, Gary J. Handler, May/June, pp. 2-8; *The name of the game has changed*, Michael L. Bandler, Sept/Oct, pp. 2-7; *Calling for cooperation*, Irwin Dorros, Nov/Dec, pp. 4-10; *Hong Kong: A window on the future*, Charles K. Kao, Nov/Dec, pp. 12-17; *Bellcore as a business — Satisfying customer needs*, Kenneth J. O'Brien, Nov/Dec, pp. 18-23.
Nusser, Terry R., *Provisioning for a new kind of network*, May/June, pp. 26-31.
NYNEX, March/April, p. 30; May/June, p. 28; July/Aug, p. 30.

O

O'Brien, Kenneth J., *NORTH STAR Bellcore as a business — Satisfying customer needs*, Nov/Dec, pp. 18-23.
one-to-one client relationships, Nov/Dec, pp. 21-22.
open-crystal structure, July/Aug, p. 8.
operating point, Jan/Feb, p. 18.
Operations and Provisioning Forum, May/June, p. 29.
operations systems, May/June, pp. 5, 7, 8, 26-31, 32-36; design, July/Aug, pp. 23, 24; software, Nov/Dec, p. 23.
optical fiber, July/Aug, pp. 3, 4-9; Sept/Oct, pp. 8-13; Nov/Dec, pp. 12-17.
optical interconnections, Nov/Dec, pp. 30-35.
Optical-fiber reliability, Bill Anderson, Hakan Yuce, Sept/Oct, pp. 8-13.
optical-fiber transmission, Jan/Feb, pp. 8-13.
optional tariffs, Jan/Feb, pp. 28-32.
OSCA™ structure, May/June, pp. 8, 29, 36; July/Aug, p. 28; Sept/Oct, p. 26.
overloads, control of, Sept/Oct, pp. 14-19.

P

Pacific Bell, March/April, p. 24; July/Aug, p. 30.
Pacific Telesis, Nov/Dec, p. 22.
packet switching, March/April, pp. 28-33.
Paek, Eung-Gi, *Captured in crystal*, Nov/Dec, pp. 30-35.
participant observation, July/Aug, pp. 24, 28.
partnership, buyer-supplier, Nov/Dec, pp. 26-27.
passive photonic loops, Jan/Feb, pp. 8-13.
Pence, J.L., *Preventive measures — A matter of quality*, Nov/Dec, pp. 24-29.
pending views, May/June, pp. 31, 34-36.
Petryczanko, Robert J., *Service Negotiation Support System: Turning a handful into a handshake*, Sept/Oct, pp. 24-28.
photodetectors, July/Aug, p. 6.
photonic loops, Jan/Feb, pp. 8-13.
photonic materials, July/Aug, pp. 4-9.
photorefractive crystals, Nov/Dec, pp. 12-17.
pollution, Jan/Feb, p. 20; July/Aug, p. 12.
POMS (plain old mail service), Review, Mar/Apr, pp. 34-35.
power supplies, March/April, pp. 14-17; July/Aug, p. 9.
Preventive measures — A matter of quality, J.L. Pence, Nov/Dec, pp. 24-29.
printed circuit boards, July/Aug, pp. 10-15.
process quality audit, Nov/Dec, p. 28.
Procurement Decision Support System (PDSS), March/April, pp. 23-27.
product audit, Nov/Dec, p. 28.
Profile: A look at the lab behind Bellcore's new fuel cell, Michael J. Burnett, March/April, pp. 14-17; *Bellcore Symposium on User-Centered Design*, Barbara Kellam-Scott, July/Aug, pp. 26-30; *Information Networking Institute*, Harold Winard, Sept/Oct, pp. 20-23.
provisioning, May/June, pp. 26-31, 32-36.
Provisioning for a new kind of network, Terry R. Nusser, Frederick M. Stumpf, May/June, pp. 32-36.
provisioning on-site verification testing (POVT), May/June, p. 36.
Puerto Rico Telephone, Nov/Dec, p. 23.
purchasing, March/April, pp. 23-27.

Q

quality assurance, Nov/Dec, pp. 24-29.
quality technology, Nov/Dec, pp. 24-29.
quality-program analysis, Nov/Dec, p. 28.
quantization, Mar/Apr, pp. 5, 7.
quantum-wire laser, Review, Sept/Oct, p. 35.

R

Rabuffo, Bruce, interview, May/June, pp. 26-31.
Rastani, Kasra, *Captured in crystal*, Nov/Dec, pp. 30-35.
The Redbook, Review, Sept/Oct, p. 35.
Regional Offices, Bellcore, Nov/Dec, p. 21.
reliability, July/Aug, pp. 10-15; Sept/Oct, pp. 8-13; Nov/Dec, pp. 24-29.
remote data acquisition, March/April, pp. 18-22.
request for information (RFI), Sept/Oct, pp. 30-33.
reuse of software, May/June, p. 29.
Roberto, Jerry T., interview, May/June, pp. 26-31.

METROCORE is a trademark of Bellcore.

OSCA is a trademark of Bellcore.

Rochester Telephone, Nov/Dec, p. 23.
run-length coding, July/Aug, pp. 33-34.

S

Sadrian, Amir, *Making the most of a telephone company's purchasing power*, March/April, pp. 23-27.
Saunders, Thomas A., interview, July/Aug, pp. 22-23.
scanning tunneling microscope, July/Aug, p. 7; Sept/Oct, p. 12.
semiconductors, July/Aug, pp. 2-3, 4-9.
Sen, Subhabrata Bapi, *Taking a fresh look at traffic engineering*, Jan/Feb, pp. 14-19.
service agreement, 1988, Nov/Dec, p. 22.
service creation, May/June, pp. 7-8.
service criteria, Jan/Feb, pp. 15-16, 17-18.
service deployment, Sept/Oct, p. 33.
Service Negotiation Support system: Turning a handful into a handshake, Wayne Felts, Rama K. Jonnada, Murray J. Katz, Robert J. Petryczanko, Sept/Oct, pp. 24-28.
service segment of an information network, May/June, pp. 5-8, 29.
service-circuit model, May/June, pp. 27, 29, 31, 33, 34.
Shankoff, Ted, *The challenges of new materials and manufacturing processes*, July/Aug, pp. 10-15.
Sibley, David S., *New designs for tariffs*, Jan/Feb, pp. 28-32.
signaling, network, May/June, p. 8.
signaling protocols, Sept/Oct, pp. 32-33.
silicone-rubber sensor, Jan/Feb, p. 22.
single-star fiber loop, Jan/Feb, p. 10.
SMDS™ system, March/April, pp. 28-33; May/June, p. 25; July/Aug, p. 23.
SOAC (Service Order Analysis and Control System), May/June, pp. 33, 34.
social context of systems and services, July/Aug, p. 28.
Software Development and Services Policies, July/Aug, p. 22.
software procurement support, Nov/Dec, pp. 28, 29.
software reuse, May/June, p. 29.
Software trials in the Dutch network, Paula L. Downey, May/June, pp. 9-13.
solder, July/Aug, pp. 14, 15.
SONET (synchronous optical network), Jan/Feb, p. 12; May/June, pp. 8, 27; July/Aug, pp. 16-19; Sept/Oct, pp. 6, 31, 32; Nov/Dec, p. 2.
Southern New England Telephone Co. (SNET), Nov/Dec, pp. 22-23.
Southwestern Bell Telephone Company, Jan/Feb, pp. 20, 26; May/June, p. 28; July/Aug, pp. 19, 30.
Spacek, Thomas R., *Data analysis and decision making*, May/June, pp. 14-19.
Spain, Nov/Dec, p. 23.
speech recognition, July/Aug, p. 30; Review, Sept/Oct, p. 34.

SMDS is a trademark of Bellcore.

splicing, Sept/Oct, p. 11.
sputtering, March/April, p. 16.
Srinagesh, Padmanabhan, *New designs for tariffs*, Jan/Feb, pp. 28-32.
standards, Mar/Apr, pp. 2-7; for broadband networks, Sept/Oct, pp. 30, 32; for networks, Nov/Dec, p. 23; for software quality, Nov/Dec, p. 29; for SONET, July/Aug, pp. 16-19.
statistical analysis, Jan/Feb, pp. 14-19; May/June, pp. 14-19.
stress, Sept/Oct, p. 13.
Stumpf, Frederick M., *Provisioning for a new kind of network*, May/June, pp. 26-31.
superconducting quantum interference devices (SQUIDs), July/Aug, p. 9.
superconductors, July/Aug, pp. 2-3, 9; Review, Jan/Feb, pp. 34-35.
supplier data surveillance, Nov/Dec, p. 28.
surface-emitting lasers, July/Aug, p. 8; Nov/Dec, p. 32.
surface-mount technology, July/Aug, p. 14.
surveillance management process, Nov/Dec, p. 29.
surveillance, quality, Nov/Dec, pp. 28-29.
SWITCH Advisory Group, May/June, p. 29.
SWITCH Product Managers, May/June, p. 29.
SWITCH provisioning system, May/June, pp. 26-31, 32-36; Sept/Oct, p. 28.
switch traffic engineering, Jan/Feb, pp. 14-19, 26.
switching fabrics, Sept/Oct, pp. 31-32.
switching systems, Sept/Oct, pp. 29-33; development, May/June, p. 6.
switching-network capacity, Jan/Feb, p. 16.

T

Taking a fresh look at traffic engineering, J. Bradley Bridges, Subhabrata Bapi Sen, Jan/Feb, pp. 14-19.
tariffs, Jan/Feb, pp. 28-32.
technical analysis, Jan/Feb, pp. 18-19; July/Aug, p. 12; Nov/Dec, p. 27.
Technical References, Nov/Dec, p. 27.
Technology Cabinet, July/Aug, p. 22.
Tedesco, Alan R., *New directions in switching*, Sept/Oct, pp. 29-33.
telecommunications devices for the deaf (TDDs), Review, Jan/Feb, p. 35.
Telecommunications Industry Association, Sept/Oct, pp. 9, 13.
telecommunications policy, Nov/Dec, pp. 4-10.
Telecommunications Transmission Engineering (The Redbook), Review, Sept/Oct, p. 35.
television, Jan/Feb, pp. 2-7.
Tendick, Patrick, *Making the most of a telephone company's purchasing power*, March/April, pp. 23-27.
text compression, July/Aug, p. 32.
thin-film technology, March/April, pp. 14-17.
TIRKS® system, May/June, pp. 27, 28, 30, 31, 33, 34, 36; July/Aug, pp. 27-28.

TIRKS is a registered trademark of Bellcore.

ToolTray computer interface, March/April, pp. 8-13.
A ToolTray for computer users, Michael J. Muller, March/April, pp. 8-13.
Total Network Data System/Trunking (TNDS/TK), May/June, p. 10.
traffic engineering, Jan/Feb, pp. 14-19.
training, May/June, p. 31.
training in user-centered design, July/Aug, p. 23.

U

U S WEST, March/April, p. 30; July/Aug, p. 30; Nov/Dec, p. 22.
United Telephone, Nov/Dec, p. 23.
usability, July/Aug, pp. 20-25, 26-30.
user interface, Review, Mar/Apr, pp. 34-35.
user testing, July/Aug, pp. 21, 22, 23, 24.
user-centered design, May/June, p. 5; July/Aug, pp. 20-25, 26-30.
User-centered service design, Deborah A. Elsinger, Judith A. List, July/Aug, pp. 20-25.

V

variability of traffic, Jan/Feb, pp. 17-18.
variable-length coding, March/April, p. 5.
video coding, March/April, pp. 4-7.
video compression, March/April, pp. 2-7.
video services, May/June, p. 5; Sept/Oct, pp. 30, 32.
videophone, Mar/Apr, pp. 2-7.
VideoWindow teleconferencing system, Nov/Dec, p. 2; Review, July/Aug, p. 36.
The vision for SWITCH, Barbara Kellam-Scott, May/June, pp. 26-31.
Visual telephony: Closer than you think, Ming-Lei Liou, March/April, pp. 2-7.
VLSI (very-large-scale integration), March/April, pp. 4-7.
Voice Interface Access-Disabled (VIA-D) system, Review, March/April, pp. 35-36.

W

Wagner, Stuart S., *Fiber-loop architectures for the 1990s*, Jan/Feb, pp. 8-13.
Warren, Paul C., *Detecting underground gasoline spills*, Jan/Feb, pp. 20-25; Bellcore Up Close, p. 27.
Wei, Victor K., *Data compression: The art of packing*, July/Aug, pp. 31-35.
Wernick, Jack H., *Frontiers in materials*, July/Aug, pp. 4-9.
Williams, Vern, *Making the most of a telephone company's purchasing power*, March/April, pp. 23-27.
Winard, Harold, *Profile: Information Networking Institute*, Sept/Oct, pp. 20-23.
wireless communications, Nov/Dec, p. 7.
workarounds, May/June, p. 30.

Y

Yuce, Hakan, *Optical-fiber reliability*, Sept/Oct, pp. 8-13.